

1884 + 1888
1286 to 1285-

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1236 to 1285

10-25 am Log neg 86.00

Menasha Bight

1 25 miles south of M V

15

40

2

22

14 1/2

Long left 70-49

140

8
70 57

41.12

14 30

40.57.30 N

70 56 N

Lat left 41.12.00

left

24-30

41 57-30

1247 left 4 E Rim 3/8 miles

1248 " " " 3/8 "

8881.4.7881

1236

Specimens Obtained

~~At the~~

Flounders starfish dead shell
Cannons.

TEMPERATURE RECORD.

Instrument used, *Bean Travel*

Current number of observation, *1286*

Date, *Aug 30 1887*

Locality, *Black Island Sound*

Bearings, *Lighthouse light N E $\frac{1}{2}$ E 1/2 E Littlehamlet N x E*

Normans Land S E $\frac{3}{4}$ E

Time of day, *9.03 am*, of tide, *W*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *62*

" at depth of fathoms,

" of bottom, *60*

Depth, in fathoms, *19.5*

Nature of bottom, *Hard*

Direction of ~~surface current~~ *wind* *SSW*

Force of ~~surface current~~ *wind* *2*

Direction of ~~bottom current~~ *drift* *S x E $\frac{3}{4}$*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *U S F C*

Name and rank of commanding officer, *Jamieson Smith*
Master of R

Name and position of observer, *J. M. L. H. T. M.*
Master of R

NEW YORK

1237

REMARKS.

Specimens Obtained
Flounders, Rock Shell, Lobsters
Skate Eel

TEMPERATURE RECORD.

Instrument used, *Beaman Travel*

Current number of observation, *1237*

Date, *Aug 30th 1887*

Locality, *Block Island Sound*

Bearings, *Gayhead Lt. S 84 W*

No Name Land S 68 E 5 1/2 E Lighthouse N 64 W

Time of day, *12 Noon*; of tide, *W*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *58*

Depth, in fathoms, *20*

Nature of bottom, *Hard*

Direction of surface current, *Wind S 64 W*

Force of surface current, *Wind 0*

Direction of bottom current, *Drift 3/4*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith*

Name and position of observer,

J. M. Smith
Master

U.S.N. 1887

1228

REMARKS.

Specimens Obtained
Broken or all shells & rocks

8925
1899-1900

1899

1899

1899

1899

1899

1899

1899

1899

1899

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1899

1899

LEWISVILLE RECORDS

TEMPERATURE RECORD.

Instrument used, *Dredge*

Current number of observation, *1238*

Date, *Aug 30th 1887*

Locality, *Block Island Sound*

Bearings, *Lay Head Lt. E 1/4 N*

Leathy Head N E 1/4 N to main Land E S E

Time of day, *10.45 am*; of tide, *W*

State of sky, *Bc*

Temperature of air, *65*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *61*

Depth, in fathoms, *20 E*

Nature of bottom, *Sand & broken shell*

Direction of ~~surface~~ *Wind* *South*

Force of ~~surface~~ *Wind* *2*

Direction of ~~bottom~~ *Drift* *1/2*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. Fish*

Name and rank of commanding officer, *Jesse Smith*
Master

Name and position of observer, *J. M. Smith*
Master

1239

REMARKS.

Specimens Obtained
Shale Sculpin Gait Flounders

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1239*

Date, *August 30th 1887*

Locality, *Block Island Sound*

Bearings, *Gun & Chicken Light Ship N 16° 12' E*

Castle Rock Lt N E. 80° 30' E

Time of day, *11.35 am*; of tide, *W*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *62*

" at depth of fathoms,

" of bottom, *61*

Depth, in fathoms, *16*

Nature of bottom, *Hard*

Direction of ~~surface current~~ *Wind SW*

Force of ~~surface current~~ *Wind 2*

Direction of bottom current, *SE*

1/2

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith*
Mate Nelson

Name and position of observer,

Jonathan
Mate Nelson

1240

REMARKS.

Specimens Obtained
Hail Sheats & Grobe fish
Flounder & star fish

TEMPERATURE RECORD.

Instrument used, *Bean Trawl*

Current number of observation, *1245*

Date, *August 20th 1887*

Locality, *Block Island Sound*

Bearings, *Wayward Sound Lt Ship N 71/2 W*

Gay Head E. 83/4 S 2 1/2 miles Land S 86 1/2 E

Time of day, *12.44 PM*; of tide, *W*

State of sky, *2c*

Temperature of air, *64*

" surface of water, *62*

" at depth of fathoms,

" of bottom, *60*

Depth, in fathoms, *18.5*

Nature of bottom, *Blue mud*

Direction of ~~surface current~~ *Wind S W*

Force of ~~surface current~~ *Wind 2*

Direction of ~~bottom current~~ *Drift N*

1/2

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.*

Name and rank of commanding officer, *James H. Smith*
Master of the

Name and position of observer,

Paulengeter

Master of the

1246

REMARKS.

Specimens Obtained
Dead shells Kermit Lake

TEMPERATURE RECORD.

Instrument used, *Snodgrass*

Current number of observation, *124*

Date, *Sept 5th*

1887

Locality, *Vineyard Sound*

Bearings, *Bishops Hecla St E 3/4 N*

Succowet Light Ship N N E 3/4 N

Time of day, *10.27*

; of tide, *E*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *69.5*

Depth, in fathoms, *21*

Nature of bottom, *land broken shell*

Direction of surface current, *Wind East*

Force of surface current, *Wind 2*

Direction of bottom current, *Drift Ebb E 1/4*

Force of bottom current, *Ebb E 1/4*

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith*

Mate U.S.F.N.

Name and position of observer, *Amberlin*

Mate U.S.F.N.

Specimens Obtained
Spider Crabs. Horse shoe crabs
Starfish and dead ^{and} ~~shells~~
live shell & squid.

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*
 Current number of observation, *1242*
 Date, *Sept 5th 1887*
 Locality, *Vineyard Sound*
 Bearings, *Bishop + Loderke St- E 1/2 N*
Succonee St Ship N 1/4 W
 Time of day, *10.50 Am*; of tide, *E*
 State of sky, *bc*
 Temperature of air, *70*
 " surface of water, *68*
 " at depth of fathoms,
 " of bottom, *69.*
 Depth, in fathoms, *18*
 Nature of bottom, *Sand + Shells*
 Direction of ~~surface current~~ *Wind East*
 Force of ~~surface current~~ *Wind 2*
 Direction of ~~bottom current~~ *Drift N + W 1/4*
 Force of bottom current,
 Name of vessel, *U S Fish Hawk*
 To what service attached, *U S F C*
 Name and rank of commanding officer, *James H. Smith*
Master USN
 Name and position of observer, *J. H. Smith*
Master USN

1243
REMARKS.

Specimens of *Aplousinella*
from these rocks sponge

TEMPERATURE RECORD.

Instrument used, *Snags*

Current number of observation, *1248*

Date, *Sept 5th 1887*

Locality, *Vineyard Sound*

Bearings, *Bishop & Clarke St E 1/2 N
Luccombe St Ship N 1/4 W*

Time of day, *11 15 am*; of tide, *E*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *69-5*

Depth, in fathoms, *15.5*

Nature of bottom, *Sand shell rocks*

Direction of *Wind* *East*

Force of *Wind* *2*

Direction of *Drift* *N x E*

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. & C*

Name and rank of commanding officer, *James H. Smith
Master*

Name and position of observer,

*J. M. Smith
Master U.S. Fish Hawk*

1248
REMARKS.

Specimens Obtained
Concha & Shells

TEMPERATURE RECORD.

Instrument used, *Snaph*

Current number of observation, *1244*

Date, *Sept 5th 1887*

Locality, *Vineyard Sound*

Bearings, *Hyannis W E 1/4 N*

Bishop & Clark St E 1/4 N *Quinnipiac St Ship W 1/2 S*

Time of day, *11.54 Am*; of tide, *W*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *69.5*

Depth, in fathoms, *5.5*

Nature of bottom, *hard mud shell*

Direction of ~~surface~~ *Wind* current, *East*

Force of ~~surface~~ *Wind* current, *2*

Direction of ~~bottom~~ *drift* current, *W x N* *1/4*

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James H. Smith*
Master USN

Name and position of observer,

Wilmington
Master USN

1245
REMARKS.

Specimens Obtained

Winkles - Hermit crabs
a few live clams and
many dead clam shells
Keep ones + Eel grass
a few small fish - Skup and
Sea robbers

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation. *1245*

Date, *Sept 5th 1887*

Locality, *Off Hyanis*

Bearings *Hyanis St N $8\frac{1}{4}$ W*

Bishop + Clerks St E $8\frac{1}{4}$ S *Collins Beacon*
St N $3\frac{1}{4}$ W

Time of day. *12.22 P.M.* of tide. *N*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *69.5*

Depth, in fathoms, *4.5*

Nature of bottom, *Sand & Shell*

Direction of ~~surface~~ *Wind* *South*

Force of ~~surface~~ *Wind* *3*

Direction of ~~bottom~~ *Drift* *N x N* *1/2*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James B. Smith*

Name and position of observer,

J. M. Highton
Master

1246

REMARKS.

Specimens Obtained
Leaches Horse shoe Crab
Stone

TEMPERATURE RECORD.

Instrument used, *Beam Therm*

Current number of observation, *1246*

Date, *Sept 5th 1887*

Locality, *off Hyannis*

Bearings, *Hyannis light N 6 1/2 W*

Leading Beacon N 80 degrees E 8 1/2 S

Time of day, *1 PM* ; of tide, *N*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *69.5*

Depth, in fathoms, *5-5*

Nature of bottom, *ss & blue*

Direction of ~~surface current~~, *mus S W*

Force of ~~surface current~~, *1/2*

Direction of ~~bottom current~~, *drift NW 1/2*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith
Master*

Name and position of observer, *J. M. Livingston
Master*

1247

REMARKS.

Specimens Obtained
Sand Bottom Longish
Hake Skate Flounders & shell
sea urchins Potatoes.

1247

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*
 Current number of observation, *1247*
 Date, *Sept-6th 1887*
 Locality, *South of Martha Vineyard 25*
 Bearings,
Lat 41° 00' 45" Lon 71° 00' 05"
 Time of day, *9.49. am*; of tide, *Ebb*
 State of sky, *bc*
 Temperature of air, *67*
 " surface of water, *65*
 " at depth of *15* fathoms, *62*
 " of bottom, *53.5*
 Depth, in fathoms, *27*
 Nature of bottom, *Sand*
 Direction of surface current, *Wind SW*
 Force of surface current, *Wind 4*
 Direction of bottom current, *SW 1/2 E 3/4*
 Force of bottom current,
 Name of vessel, *U.S. Fish Hawk*
 To what service attached, *U.S.F.C.*
 Name and rank of commanding officer, *Jas. B. Smith*
 Master U.S.F.C.
 Name and position of observer, *W. L. H. Smith*
 Master U.S.F.C.

1248

REMARKS.

Specimens Obtained
Lime Fish Flounders Pectens
Haik, Yellow Sponges, Sea Robbings
Sand dollars.

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1248*

Date, *Sept 6th 1887*

Locality, *South of Martha's Vineyard*

Bearings, *1 mile N E of East bearing 24*
Lat 41.02.00 Long 71.00.00

Time of day, *10.30 am* of tide,

State of sky, *bc*

Temperature of air, *68*

" surface of water, *64*

" at depth of *15* fathoms, *63*

" of bottom, *ss*

Depth, in fathoms, *26.5*

Nature of bottom, *Sand*

Direction of surface current, *Wind SW*

Force of surface current, *Wind 4*

Direction of bottom current, *Drift N E 1/2 E 1/2*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith*
Master

Name and position of observer, *Wm. H. Hutton*
Master U.S.F.C.

1249

REMARKS.

Specimens Obtained
from dollys / ground Hake
Hake Esulpin

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1249*

Date, *Sept 6th 1887*

Locality, *South of Martha's Vineyard 5 miles*

Bearings, *2 miles S. E. of last bearing 2 1/2 miles*

Lat 41° 04' 00" Lon 70° 59' 30"

Time of day, *11.29 AM*, of tide,

State of sky, *bc*

Temperature of air, *67*

" surface of water, *64*

" at depth of *12* fathoms, *63*

" of bottom, *57*

Depth, in fathoms, *225*

Nature of bottom, *1 sand*

Direction of *Wind SW*

Force of *Wind 4*

Direction of *Drift - N E 1/2 N* *3/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith*
Cy. at sea

Name and position of observer, *J. M. Broughton*
Cmate U.S.F.C.

1250

REMARKS.

Specimens Obtained
Hirundin sand alluvial
shell Hark description

40 7 2 5

5 11

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TEMPERATURE RECORD.

Instrument used, *Beam Thermometer*

Current number of observation, *1250*

Date, *Sept 6th 1887*

Locality, *South of Martha's Vineyard*

Bearings, *3 miles N & E of last bearing*
Lat 41° 06.00" Lon 70° 59.15"

Time of day, *12.30 PM*; of tide, *—*

State of sky, *Cloudy*

Temperature of air, *67*

" surface of water, *64*

" at depth of *10* fathoms, *65*

" of bottom, *58.5*

Depth, in fathoms, *20.5*

Nature of bottom, *1 Sand*

Direction of surface current, *Mud SW*

Force of surface current, *Wind 4*

Direction of bottom current, *Drift N 6 1/2 E* *2/3*

Force of bottom current,

Name of vessel, *USS Fish Hawk*

To what service attached, *U.S. 76*

Name and rank of commanding officer, *James H. Smith*
Master U.S.N.

Name and position of observer,

Wm. L. H. H. H.
Master U.S.N.

1251

REMARKS.

Specimens Obtained
Shale sand hollow Hair
Grounden Sculpin

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1254*

Date, *Sept 6th 1887*

Locality, *East of Martha's Vineyard*

Bearings, *4 miles S & E of last bearing*

Lat 41° 10' 00" Lon 70° 59' 15"

Time of day, *1.36 PM* ; of tide.

State of sky, *bc*

Temperature of air, *67*

" surface of water, *64*

" at depth of *10* fathoms, *62*

" of bottom, *60*

Depth, in fathoms, *17*

Nature of bottom, *sand*

Direction of *Wind* *SW*

Force of *Wind* *4*

Direction of *Drift* *NE 1/2 N* *3/8*

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith*
Master USN

Name and position of observer,

W. L. H. H. H.
Master USN

1252

REMARKS.

Specimens Obtained
Starfish Skate Flounder
Sand Crabs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1252*

Date, *Aug 20th 1888*

Locality, *Monomachus Ridge*

Bearings, *Layard W. & 3/4 N*

Temperature line W. & 1/2 S. 1/2 E. 1/2 S. 1/2 E. North

Time of day, *1050* ; of tide, *East*

State of sky, *bc*

Temperature of air, *69*

" surface of water, *65*

" at depth of ~~65~~ fathoms,

" of bottom, *60*

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind N. & W*

Force of ~~surface current~~ *Wind N*

Direction of ~~bottom current~~ *Drift N. & W 1/2 S*

Force of bottom current.

Name of vessel, *U. S. Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer, *James Smith
Master U. S. F. C.*

Name and position of observer,

*Barclay H. Evans
Master U. S. F. C.*

1253

REMARKS.

Specimens Obtained
Sand dollars. Conchs. Flounders.
Starfish Sand Crabs. Kelp

TEMPERATURE RECORD.

Instrument used, *Beane Trawl*

Current number of observation, *1253*

Date, *Aug 23* 1888

Locality, *Memphis Bay*

Bearings, *Entrance lower N E 7/8 E*

Bay head W or W. Linder Hole N or N W

Time of day, *11.05 am*; of tide, *Ebb*

State of sky, *b c*

Temperature of air, *69*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *63*

Depth, in fathoms, *10*

Nature of bottom, *hard*

Direction of ~~surface~~ *surface* current, *N W*

Force of ~~surface~~ *surface* current, *4*

Direction of ~~bottom~~ *surface* current, *N W 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith*
Master U.S.N.

Name and position of observer,

Samuel H. Taylor
Master U.S.N.

1254

REMARKS.

Specimens Obtained
Lobsters Crabs Sea Robins Skate
Flounders & ~~Crabs~~ Kelp

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1254*

Date, *August 23 1884*

Locality, *Memphis River*

Bearings, *Temperature lower at $6\frac{1}{4}$ E*

Gay head N & S Quaker Point at $N\frac{3}{4}W$

Time of day, *11, 23* ; of tide, *East*

State of sky, *bc*

Temperature of air, *68.5*

" surface of water, *64.5*

" at depth of fathoms,

" of bottom, *63*

Depth, in fathoms, *9*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* current, *NW*

Force of ~~surface~~ *Wind* current, *4*

Direction of ~~bottom~~ *Drift* current, *NNE 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith*
Master U.S.N.

Name and position of observer,

J. B. Livingston
Master

1255

REMARKS.

Specimens Obtained
Harp Skate Clam shells Herring
Skid + eggs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1255*

Date, *August 23rd 1888*

Locality, *Mormonsha Light*

Bearings, *Lupatim Cove N N E*

Gayhead N N E 1/2 E 1/2 S 1/2 W

Time of day, *11:45* ; of tide, *East*

State of sky, *bc*

Temperature of air, *68.5*

" surface of water, *65*

" at depth of fathoms,

" of bottom, *63*

Depth, in fathoms, *184*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* *SW*

Force of ~~surface~~ *Wind* *4*

Direction of ~~bottom~~ *Drift* *SW 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jamieson Smith*
Master U.S.N.

Name and position of observer,

J. M. L. L. L.

Master U.S.N.

1256

REMARKS.

Specimens Obtained
Kelp Sand ~~Bottom~~

TEMPERATURE RECORD.

Instrument used, *Abney*

Current number of observation, *1256*

Date, *Aug 23rd 1888*

Locality, *Vineyard Sound*

Bearings, *West end of Maine land S $3\frac{3}{4}$ E*

Vineyard S 4 E Cape N. W. Gay Head S E \times S $\frac{1}{4}$ E

Time of day, *12.36 PM* ; of tide, *East*

State of sky, *bc*

Temperature of air, *62*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *61*

Depth, in fathoms, *16*

Nature of bottom, *Sand broken shells*

Direction of ~~surface current~~ *Drift N W*

Force of ~~surface current~~ *Drift 4*

Direction of ~~bottom current~~ *Drift E x N*

Force of bottom current,

Name of vessel, *U. S. Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer, *Jas. H. Smith
Master of the*

Name and position of observer,

*J. M. H. H. H.
Master of the*

1257

REMARKS.

Specimens Obtained
Kelp Rock spings, Skate
Sand Bellows, Cunnings

TEMPERATURE RECORD.

Instrument used, *Beam Travel*

Current number of observation, *1257*

Date, *Aug 23rd 1888*

Locality, *Vineyard Sound*

Bearings, *Vineyard Lt Ship's H & W 1/2 W*

Quitty Point H & W 1/2 W Bayhead SE 3/4 E

Time of day, *1.08 P.M.* of tide, *East*

State of sky, *b c*

Temperature of air, *64*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *59*

Depth, in fathoms, *14*

Nature of bottom, *Sand broken shells*

Direction of ~~surface current~~ *Drift West*

Force of ~~surface current~~ *Drift 3*

Direction of ~~bottom current~~ *Drift NNE 1/8*

Force of bottom current,

Name of vessel, *U.S.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James H. Smith
Master U.S.N.*

Name and position of observer, *J. M. Loring
Master U.S.N.*

1258

REMARKS.

Specimens obtained
Sea Robbers Hairs Skate &
Flounders. Hake

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1258*

Date, *Aug 23rd 88*

Locality, *Vineyard Sound*

Hearings, *Vineyard St Ship W & W*

Century Hawk N & W 1/2 N Bay Head S E 1/2 E

Time of day, *1.26 Pm* : of tide, *Neap*

State of sky, *bc*

Temperature of air, *63.5*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *59*

Depth, in fathoms, *15.5*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *Wind West*

Force of ~~surface current~~, *Wind S*

Direction of ~~bottom current~~, *Drift N x E 3/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James S. Smith Lt Mate U.S.F.C.*

Name and position of observer,

*J. H. Lorington
Master U.S.F.C.*

1259

REMARKS.

Specimens Obtained
Yellow sponge skate Flounders
Kelp Hick

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1259*

Date, *Aug 23* 88

Locality, *Vineyard Sound*

Bearings, *Vineyard Pt Ship N W $\frac{1}{4}$ W
Cuttymunk N $\frac{1}{2}$ W Cape Cod E $\frac{1}{2}$ N*

Time of day, *2 Pm* : of tide, *Went out*

State of sky, *bc*

Temperature of air, *64.5*

" surface of water, *64.5*

" at depth of fathoms,

" of bottom, *58.5*

Depth, in fathoms, *18*

Nature of bottom, *Sand*

Direction of surface current, *Wind went*

Force of surface current, *Wind 3*

Direction of bottom current, *Drift N E $\frac{1}{2}$ N $\frac{1}{4}$*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Name and position of observer,

*J. Menighton
Master*

1260
REMARKS.

Specimens Obtained
Red Shell

TEMPERATURE RECORD.

Instrument used, *Alfred*

Current number of observation, *1260*

Date, *Aug 23 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard to Ship N + N 1/2 N*

Butty bank N + E Gay head S E 1/2 E

Time of day, *2:30 PM* of tide, *West*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *64*

" at depth of fathoms,

" of bottom, *60*

Depth, in fathoms, *14*

Nature of bottom, *Sand mud & broken shell*

Direction of ~~surface current~~, *Wind West*

Force of ~~surface current~~, *Wind 3*

Direction of ~~bottom current~~, *Drift N S W 1/2*

Force of ~~bottom current~~

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Name and position of observer, *J. H. Thompson
Master*

1261

REMARKS.

Specimens Obtained
Shate Hermit Crab Holk

TEMPERATURE RECORD.

Instrument used, *Beane's Trawl*

Current number of observation, *1261*

Date, *August 23 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard Pt Light N W 1/4 W
Leutysbank E 1/4 N 1/4 E
Gayhead N E 1/4 E*

Time of day, *3:06 PM*; of tide, *neap*

State of sky, *bc*

Temperature of air, *64.5*

" surface of water, *63*

" at depth of fathoms,

" of bottom, *61*

Depth, in fathoms, *14.5*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind West*

Force of ~~surface current~~ *Wind 3*

Direction of ~~bottom current~~ *SE 1/4 E*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer,

Name and position of observer, *J. M. L. Highton
Master*

1262

REMARKS.

Specimen Obtained

Dead shell clams Hermit Crab
Rock sponge Puffins. Mussels
Skink Scallop Sculp Sea Robins
Hake, Silver Crab

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1262*

Date, *Aug 28 88*

Locality, *Off Falmouth Vineyard Sound*

Bearings, *Falmouth Heights N 87 E 6*

North 45 1/2 S West Cape Light S 86 7/8 E

Time of day, *10:14 Am*; of tide, *East*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *5*

Nature of bottom, *Sandy*

Direction of *Wind* *N*
surface current

Force of *Wind* *5*
surface current

Direction of *Drift* *N 84 E 178*
bottom current

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. Fish*

Name and rank of commanding officer, *James A. Smith*
Master U.S.N.

Name and position of observer, *Wilmington*
Master U.S.N.

1263

REMARKS.

Specimens Obtained
Same as 1262

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1263*

Date, *Aug 28 88*

Locality, *Off Falmouth Vineyard Sound*

Bearings, *Falmouth Heights N E 76 N*

Watcha Bottom N 48 1/2 W mt chop 82 1/2 S 1/4 S

Time of day, *10 2 AM*; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *64*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *67*

Depth, in fathoms, *5*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Spindle* current, *NW*

Force of ~~surface~~ *Spindle* current, *5*

Direction of ~~bottom~~ *Spindle* current, *N E x N 1/2*

Force of bottom current,

Name of vessel, *U S Fish Hawk*

To what service attached, *USFB*

Name and rank of commanding officer, *Lieut J. Smith*
Master

Name and position of observer, *J. M. Loughlin*
Master

1264

REMARKS.

Specimens Blaine
Horn shell Star fish Sea urchin
Scallops flat fish gorgon
Rock sponge sea weed & Eel grass
Conchs

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1264*

Date, *Aug 28* 88

Locality, *Off Falmouth Vineyard Sound*

Bearings, *Falmouth Light N 46 1/2 E*

Michael's Pt S. but close to S 46 3/4 E

Time of day, *10:48 am* ; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *66*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *67*

Depth, in fathoms, *8*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* *NW*

Force of ~~surface~~ *Wind* *5*

Direction of ~~bottom~~ *Light* *N 8 x E* *1/8*

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James B. Smith*
Master USN

Name and position of observer, *Jordan Light*
Master USN

1265

REMARKS.

Specimens Obtained
Dead shell sand Crabs Hermit Crabs
Rock sponge Ell. green

TEMPERATURE RECORD.

Instrument used, *Beam Therm*

Current number of observation. *1265*

Date, *Aug 28* *88*

Locality, *Off Falmouth Vineyard Sound*

Bearings, *Int Chop S 46 1/4 E*

Oblique S 11 1/4 E. East Chop S 88 1/4 E

Time of day, *11, 04* ; of tide, *East*

State of sky, *bc*

Temperature of air, *66*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of surface current, *Wind NW*

Force of surface current, *Wind 5*

Direction of bottom current, *Drift NE 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Smith
Master*

Name and position of observer,

*J. M. Wright
Master*

1266

REMARKS.

Specimens of *Albidinella*
from the same species as the
Crabs of the same

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1266*

Date, *Aug 28th 88*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Accommodated Lt Ship 20 x 1/2 +*

Gallies Beacon 10 7/8 E Bishop 4 blocks Lt + 6 1/2 E

Time of day, *12, 14 P.M.*; of tide, *East*

State of sky, *b c*

Temperature of air, *67*

" surface of water, *70*

" at depth of fathoms,

" of bottom, *69.5*

Depth, in fathoms, *16.5*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind NW*

Force of ~~surface current~~ *Wind S*

Direction of ~~bottom current~~ *Drift NE*

Force of bottom current,

Name of vessel, *U.S. Mr. Litch H. Smith*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *J. A. Smith
Master U.S.F.C.*

Name and position of observer, *J. H. Lighter
Master U.S.F.C.*

1267

REMARKS.

Specimen obtained
from shell



TEMPERATURE RECORD.

Instrument used, *Almagest*

Current number of observation, *1267*

Date, *Aug 28 88*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Secommet to Ship N x S*

Collins Beacon N E 1/4 N. Bishop + Clark Pt N E 3/4 E

Time of day, *12:45 Pm* ; of tide, *Ebb*

State of sky, *bc*

Temperature of air, *66*

surface of water, *69*

at depth of fathoms,

of bottom, *69*

Depth, in fathoms, *15.5*

Nature of bottom, *Shall broken shells*

Direction of ~~surface~~ *current*, *mud N x W*

Force of ~~surface~~ *current*, *5*

Direction of ~~bottom~~ *current*, *drift N x E*

Force of bottom current.

Name of vessel, *U.S. Fish Com. Steamer*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James H. Smith*
Master U.S.N.

Name and position of observer, *J. H. Houghton*
Master U.S.N.

1268

REMARKS.

Specimens Plained
Spider crabs Sea urchins
Cniders

✓

TEMPERATURE RECORD.

Instrument used, *Beam Therm*

Current number of observation, *1268*

Date, *Aug 21st 88*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Lucanesset Lt Ship N 44 1/2 W
Callies Beacon N 28 1/2 W Bishop's Island N 84 1/2 E*

Time of day, *12.55 PM*; of tide, *East*

State of sky, *bc*

Temperature of air, *65*

" surface of water, *66.5*

" at depth of fathoms,

" of bottom, *69*

Depth, in fathoms, *17*

Nature of bottom, *Sand*

Direction of surface current, *Wind NW*

Force of surface current, *1 mile*

Direction of bottom current, *Drift NE 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *No 126*

Name and rank of commanding officer, *Jessie Boniste
Master of m*

Name and position of observer, *W. M. H. H. H.
Master of m*

TEMPERATURE RECORD.

Instrument used, *Bridge*

Current number of observation, *1269*

Date, *Aug 21 1881*

Locality, *Off Hyannis Vineyard Sound*

Bearings, *Lucanesset Lt Ship N 74 W 7/8 W*

Callies Beacon N 65. E. Bishop + Calais Lt N 64 E 1/4 E

Time of day, *1.18 PM* ; of tide, *East*

State of sky, *B*

Temperature of air, *64*

" surface of water, *68.5*

" at depth of fathoms,

" of bottom, *69*

Depth, in fathoms, *13.*

Nature of bottom, *Sand*

Direction of ~~surface~~ current, *N 74 W*

Force of ~~surface~~ current, *5*

Direction of ~~bottom~~ current, *N 12 E*

1/4

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith
Master of ship*

Name and position of observer, *Johnston
Master of ship*

1270

REMARKS.

Specimen obtained
Spidee Crabs, Lobster. Sea
moss. Young cup, dead shells

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1270*

Date, *Aug 28th 88*

Locality, *Off Hyannis, Vineyard Sound*

Bearings, *On Commodore Let Ship N 45° W*

buoys Beacon N 45° E. Bishop's Head Lt N E 1/4 E

Time of day, *1.44 P.m.*; of tide, *East*

State of sky, *Cloudy*

Temperature of air, *65*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *69*

Depth, in fathoms, *13*

Nature of bottom,

Direction of surface current, *Wind N W*

Force of surface current, *Wind 5*

Direction of bottom current, *Drift N E x E*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jesse H. Smith
Master*

Name and position of observer, *John H. Norton
Master*

1271

REMARKS.

Specimens Obtained
Spider Crab Mussels & Shells
Rock weed & sponge



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1271*

Date, *Aug 28* 88

Locality, *Off Hyannis Vinyard Sound*

Bearings, *Brace Point Light Ship N 71/2 W*

Collins Beacon N 25/4 E. Bishop & Blackwell N 62 3/4 E

Time of day, *2.10 PM*; of tide, *East*

State of sky, *Cloudy*

Temperature of air, *64*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *10*

Nature of bottom, *Sand*

Direction of *Wind* *NW*
~~surface current,~~

Force of *Wind* *5*
~~surface current,~~

Direction of *Drift* *Ex N*
~~bottom current,~~

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James A. Smith*
Master

Name and position of observer,

James A. Smith
Master

1272
REMARKS.

Specimens Obtained
Flat fish skate star fish Pecten
Gang sculp crabs sea Robins



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1272*

Date, *Sept 3rd 88*

Locality, *Monomah Bay Vineyard Sound*

Bearings, *Bay head N $\frac{3}{4}$ S*

Quicks Hole N $\frac{1}{2}$ W Topaulin Cove N $\frac{1}{2}$ E

Time of day, *10.58* ; of tide, *Went*

State of sky, *Bc*

Temperature of air, *68*

" surface of water, *66*

" at depth of fathoms,

" of bottom, *64*

Depth, in fathoms, *7*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* *SE*

Force of ~~surface~~ *Wind* *3*

Direction of ~~bottom~~ *Wind* *SE mag 18*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith
Master*

Name and position of observer, *John H. Smith
Master*

1273

REMARKS.

Specimens Obtained
Same as 1472

TEMPERATURE RECORD.

Instrument used, *Beam Thermometer*

Current number of observation, *1273*

Date, *Sept 3rd 88*

Locality, *Minemaha Bay & King's Sound*

Bearings, *Gay Head N 7/8 S*

Quicks Hole N 7/8 W Tapanahin Cor. W 1/2 E

Time of day, *11.15 am* ; of tide, *neap*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *67.5*

" at depth of fathoms,

" of bottom, *64*

Depth, in fathoms, *8*

Nature of bottom, *sand*

Direction of *Drift* *48*

Force of *Wind* *3*

Direction of *Drift* *N 7/8 E mag 48*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. Fish*

Name and rank of commanding officer, *James B. Smith*
Master of Ship

Name and position of observer,

J. M. Lighter
Master of Ship

1274

REMARKS.

Specimens Obtained
Lebanon Skate Sea Robbers Group
scup



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation. *1274*

Date, *Sept 8 1881*

Locality, *Monomaha R. N. V. Sound*

Bearings, *Gay heads N 7 E N*

Guides Hole N 7/4 N Torpaulin Cove N 4 X 2 7/8 E

Time of day, *11 35 Am* ; of tide, *West*

State of sky, *b-c*

Temperature of air, *68*

" surface of water, *66.5*

" at depth of fathoms,

" of bottom, *64.5*

Depth, in fathoms, *8*

Nature of bottom, *Sand*

Direction of ~~surface current~~, *W. S. E*

Force of ~~surface current~~, *3*

Direction of ~~bottom current~~, *W. S. E mag 48*

Force of bottom current,

Name of vessel, *U. S. Fish Hawk*

To what service attached, *U. S. F. C.*

Name and rank of commanding officer, *J. M. Smith
Lieut. Comdr.*

Name and position of observer, *J. M. Smith
Mate*

1275

REMARKS.

*Specimen Obtained
Same as 1274*

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, 1275-

Date, Sept 8th 88

Locality. *Yuma Co. Right Vineyard Ground*

Bearings, Bayhead 25764

Quinto Hole 4 x 7/8 x Zirconium Carb 4 x 6 3/4 2

Time of day, *11:45 Am*; of tide, *Neap*

State of sky, *bc*

Temperature of air, 68

surface of water, 69

“ at depth of fathoms,

of bottom. 64.5

Depth, in fathoms,

Nature of bottom.

Direction of ~~surface~~ current.

Force of ~~surface current~~;

Direction of bottom current:

Force of bottom current.

Name of vessel.

To what service attached.

Name and rank of commanding officer

Name and position of observer.

1276

REMARKS.

Specimens Obtained
David Hollars



TEMPERATURE RECORD.

Instrument used, *Stanton Rake Therm*

Current number of observation, *1276*

Date, *Sept 3" 98*

Locality, *Vineyard Sound*

Bearings, *Dayhead S 1/4 W*

Vineyard St Ship W 1/4 W Tar Paulin Cove S E 7/8 W

Time of day, *12.27 PM*; of tide, *most*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *GN*

Depth, in fathoms, *11.5*

Nature of bottom, *Sand & Mud*

Direction of surface current, *Wind S E*

Force of surface current, *Wind 3*

Direction of bottom current, *Drift - West 7.8 May 98*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jam. Smith
Master*

Name and position of observer, *J. M. Thompson
Master*

1277

REMARKS.

Specimens Obtained
Sand dollars



TEMPERATURE RECORD.

Instrument used, *Liberty Rate Wadger*

Current number of observation, *1277*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Tarpaulin Cove N 84 E 1/4 S*

Vineyard St Ship N 84 E 1/4 S Gay head S 82 W 1/4 E

Time of day, *12:48 P.M.*; of tide, *neap*

State of sky, *b c*

Temperature of air, *68*

" surface of water, *65*

" at depth of fathoms,

" of bottom, *64*

Depth, in fathoms, *12*

Nature of bottom, *Sand mud*

Direction of ~~surface current~~ *Wind* *S W*

Force of ~~surface current~~ *Wind* *2*

Direction of ~~bottom current~~ *Wind* *N 1/4 E*

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer, *James B. Smith*

Master

Name and position of observer, *John H. Smith*

Master

1278

REMARKS.

Specimens Obtained
Sand Dollars Skate Flat fish
Scallops, Hermit Crabs
Sea Urchins



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1278*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard to Ship + $114^{\circ} 22' 1/4''$
*S. Pauline Cord $88^{\circ} 1/2''$ S. Gayhead $81^{\circ} 1/4''$**

Time of day, *1.25 P.M.* ; of tide, *low*

State of sky, *b-c*

Temperature of air, *67*

" surface of water, *65*

" at depth of fathoms,

" of bottom, *64*

Depth, in fathoms, *12.5*

Nature of bottom, *Sand*

Direction of ~~surface~~ *surface* current, *Drift 8°*

Force of ~~surface~~ *surface* current, *2*

Direction of ~~bottom~~ *bottom* current, *Drift 114°*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. Fish*

Name and rank of commanding officer, *James A. Smith
*Master U.S.N.**

Name and position of observer,

*Stoddington
*Master U.S.N.**

1279

REMARKS.

Specimens Obtained
Sand dollars, Rocking flat fish
Orange Sea Robins, Herring
Noise. Kelp Sea Urchins



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1279*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard Lt Ship W N W*

Tarpauline Cove N E x N Bay head S W 1/4 S

Time of day, *1-54* ; of tide, *Went*

State of sky, *bc*

Temperature of air, *67*

" surface of water, *65*

" at depth of fathoms,

" of bottom, *64*

Depth, in fathoms, *15*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind S E*

Force of ~~surface current~~ *Wind 2*

Direction of ~~bottom current~~ *Wind W 1/2 N mag 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer,

Name and position of observer,

1280

REMARKS.

Specimens Obtained
Sand dollars, Star fish, Pectins
Sea Robbins. Sea Urchins Hermit Crabs
Sand crabs Flat fish, Sea Raven.



TEMPERATURE RECORD.

Instrument used, *Ream Trawl*

Current number of observation, *1280*

Date, *Sept 3rd 88*

Locality, *Vineyard Sound*

Bearings, *Vineyard St Ship N 44° E $1/4$ N*

Tarpauline Cove N 67° E $1/4$ E Gayhead S 71° E $1/4$ E

Time of day, *2.10 P.M.* : of tide, *East*

State of sky, *b-c*

Temperature of air, *72*

" surface of water, *69*

" at depth of fathoms,

" of bottom, *63*

Depth, in fathoms, *16*

Nature of bottom, *Sand shell*

Direction of ~~surface current~~ *Wind S E*

Force of ~~surface current~~ *Wind 3*

Direction of ~~bottom current~~ *Swift S 17° E $1/4$ N Mag 1/8*

Force of bottom current.

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James A. Smith*
Master U.S.N.

Name and position of observer, *Louderington*
Master U.S.N.

1281

REMARKS.

Specimen Obtained
Hunters, Summers, ~~P. J. M. C.~~
King Fish. Laurog



TEMPERATURE RECORD.

Instrument used, *Beaman Trawl*

Current number of observation, *1281*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *North to S ~~W~~ $\frac{1}{2}$ W*

West look S $\frac{1}{4}$ W East look S $\frac{1}{4}$ E

Time of day, *2.40 P.M.* : of tide. *West*

State of sky, *b-c*

Temperature of air, *70*

" surface of water, *69*

" at depth of fathoms,

" of bottom, *10*

Depth, in fathoms, *3*

Nature of bottom, *Sand*

Direction of ~~surface~~ *surface* current, *S W*

Force of ~~surface~~ *surface* current, *2*

Direction of ~~bottom~~ *bottom* current, *S W $\frac{1}{2}$ W by S $\frac{1}{8}$*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

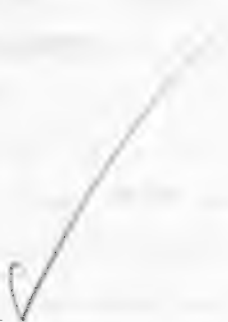
Name and rank of commanding officer, *James A. Smith*
Master

Name and position of observer, *J. M. Lightham*
Master

1282

REMARKS.

Specimens Obtained
Sand, Lenses Sea Robbins
Spider Crabs, Kelp, Seal
Shells,



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1282*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Nobles Pt 1/4 N*

West light S 5/8 W East light S x E 1/8 E

Time of day, *3 P.M.* ; of tide, *neap*

State of sky, *bc*

Temperature of air, *70*

" surface of water, *67*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *5*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind SW*

Force of ~~surface current~~ *Wind 2*

Direction of ~~bottom current~~ *Drift SW x W mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S. F.C.*

Name and rank of commanding officer, *James A. Smith
Master U.S.N.*

Name and position of observer,

1283.

REMARKS.

Specimens Obtained
Lemichs Crabs. Sponges
Spider Crabs. Hermit crabs
Beach shells. Star fish



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1283*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Norfolk N 1/2 S*

West Cape S N 1/4 S East Cape S N 3/4 W

Time of day, *3.38 Pm*; of tide, *West*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *69*

" at depth of fathoms,

" of bottom, *69*

Depth, in fathoms, *13*

Nature of bottom, *Sand*

Direction of ~~surface current~~ *Wind S W*

Force of ~~surface current~~ *Wind 13*

Direction of ~~bottom current~~ *SE 1/2 E mag 1/8*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James Abbot Mather*

Name and position of observer,

J. M. Loughlin
Mate upon

1284

REMARKS.

Specimens Obtained
Spider Crabs. Hermit Crabs
Land Crabs. Dead shells
Sponges



TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1284*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Whale n 1/4 n*

West Cape SW East Cape SW x S 1/2 S

Time of day, *4:07 PM* ; of tide, *Mid*

State of sky, *bc*

Temperature of air, *68*

" surface of water, *69*

" at depth of fathoms,

" of bottom, *69*

Depth, in fathoms, *6*

Nature of bottom, *Sand*

Direction of ~~surface~~ *Wind* *ESE*

Force of ~~surface~~ *Wind* *3*

Direction of ~~bottom~~ *Wind* *West mag 1/4*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *Jesse Smith*
Master

Name and position of observer, *J. M. Lightham*
Master

1285

REMARKS.

Specimens Obtained
 Spider Crabs Sponge Sea Urchins
 Young sculp. Small Fish

TEMPERATURE RECORD

TEMPERATURE RECORD.

Instrument used, *Beam Trawl*

Current number of observation, *1285*

Date, *Sept 5th 88*

Locality, *Vineyard Sound*

Bearings, *Tarpaulin Cove $N 81^{\circ} E$*

Gagehead $S 27^{\circ} W$ Dist 4.50 $S 81^{\circ} E$

Time of day, *5 P.M.* ; of tide, *Ebb*

State of sky,

Temperature of air, *69*

" surface of water, *68*

" at depth of fathoms,

" of bottom, *68*

Depth, in fathoms, *12*

Nature of bottom,

Direction of ~~surface current~~ *Wind* *ESE*

Force of ~~surface current~~ *Wind* *3*

Direction of ~~bottom current~~ *Drift* *S 27th W mag*

Force of bottom current,

Name of vessel, *U.S. Fish Hawk*

To what service attached, *U.S.F.C.*

Name and rank of commanding officer, *James H. Smith
Master*

Name and position of observer,

*John H. Smith
Master*

REMARKS.

St Ship S 90 W

B & Celeste N 76. E

to reach N 55. E

Ship's Head ~~N 40~~ E & N 1/2 N #1270

Guy Head S 49 1/2 W

Vineyard St Ship N 74 1/2 W

Tarpaulin cover N 40 1/2 E

to Yorkbrook - 13
to Richmond 15
Aug 28